**Myelin basic protein Polyclonal ANTIBODY**

**Catalog Number:** 10458-1-AP

**Basic Information**
- **Catalog Number:** 10458-1-AP
- **Size:** 75 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG0713
- **GenBank Accession Number:** BC008749
- **GeneID (NCBI):** 4155
- **Full Name:** myelin basic protein
- **Calculated MW:** 33 kDa
- **Observed MW:** 17-22 kDa
- **Recommended Dilutions:**
  - WB: 1:1000-1:6000
  - IHC: 1:50-1:500

**Applications**
- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** mouse, rat

**Background Information**
MBP belongs to the myelin basic protein family. The classic group of MBP isoforms (isoform 4-isoform 14) are the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. MBP has six isoforms. Catalog#10458-1-AP is capable of recognizing multiple isoforms of MBP.

**Notable Publications**

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<tr>
<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Lin Wang</td>
<td>30376571</td>
<td>Cell Physiol Biochem</td>
<td>IF</td>
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<tr>
<td>Jueqiong Wang</td>
<td>27725120</td>
<td>J Neuroimmunol</td>
<td>IHC</td>
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<tr>
<td>Yuxin Zhang</td>
<td>26913194</td>
<td>Exp Eye Res</td>
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**Storage**
- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

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mouse brain tissue were subjected to SDS PAGE followed by western blot with 10458-1-AP Myelin basic protein antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10458-1-AP Myelin basic protein antibody at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 10458-1-AP Myelin basic protein antibody at dilution of 1:200 (under 40x lens).